

Freeform Search

| | |
|---|--|
| Database: | <div style="border: 1px solid black; padding: 2px;"> US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins </div> |
| Term: | <div style="border: 1px solid black; padding: 2px;"> L11 and api </div> |
| Display: | <div style="border: 1px solid black; padding: 2px;">100</div> Documents in Display Format: <div style="border: 1px solid black; padding: 2px;">-</div> Starting with Number <div style="border: 1px solid black; padding: 2px;">1</div> |
| Generate: <input type="radio"/> Hit List <input checked="" type="radio"/> Hit Count <input type="radio"/> Side by Side <input type="radio"/> Image | |

Search

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DATE: Wednesday, August 10, 2005
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| <u>Set Name</u> side by side | <u>Query</u> | <u>Hit Count</u> | <u>Set Name</u> result set |
|--|--------------------------------|------------------|-------------------------------|
| <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i> | | | |
| <u>L12</u> | L11 and api | 9 | <u>L12</u> |
| <u>L11</u> | L10 and (driver near software) | 10 | <u>L11</u> |
| <u>L10</u> | (federated near bean) | 23 | <u>L10</u> |
| <u>L9</u> | L7 and (federated near bean) | 1 | <u>L9</u> |
| <i>DB=USPT; PLUR=YES; OP=OR</i> | | | |
| <u>L8</u> | L7 and (federated near bean) | 1 | <u>L8</u> |
| <u>L7</u> | driver near software | 4661 | <u>L7</u> |
| <u>L6</u> | L5 and api | 1 | <u>L6</u> |
| <u>L5</u> | L4 and software | 3 | <u>L5</u> |
| <u>L4</u> | management near facade | 3 | <u>L4</u> |
| <u>L3</u> | L2 and table | 1 | <u>L3</u> |
| <u>L2</u> | (6014557).pn. | 1 | <u>L2</u> |
| <u>L1</u> | (6501950).pn. | 1 | <u>L1</u> |

END OF SEARCH HISTORY

Refine Search

Search Results -

| Term | Documents |
|---|-----------|
| 709/230 | 1627 |
| 709/230S | 0 |
| (12 AND (709/230.CCLS.)).PGPB,USPT,USOC,EPAB,JPAB,DWPI. | 1 |
| (L12 AND (709/230.CCLS.)).PGPB,USPT,USOC,EPAB,JPAB,DWPI. | 1 |

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
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Search:

L18

Refine Search

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DATE: Wednesday, August 10, 2005 [Printable Copy](#) [Create Case](#)

| <u>Set Name</u> side by side | <u>Query</u> | <u>Hit Count</u> | <u>Set Name</u> result set |
|--|--------------------------------|------------------|-------------------------------|
| <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i> | | | |
| <u>L18</u> | 112 and (709/230.ccls.) | 1 | <u>L18</u> |
| <u>L17</u> | 112 and (719/316.ccls.) | 1 | <u>L17</u> |
| <u>L16</u> | 112 and (719/330.ccls.) | 1 | <u>L16</u> |
| <u>L15</u> | 112 and (719/330ccls.) | 0 | <u>L15</u> |
| <u>L14</u> | 112 and (719/328.ccls.) | 2 | <u>L14</u> |
| <u>L13</u> | 112 and (719/321.ccls.) | 2 | <u>L13</u> |
| <u>L12</u> | L11 and api | 9 | <u>L12</u> |
| <u>L11</u> | L10 and (driver near software) | 10 | <u>L11</u> |
| <u>L10</u> | (federated near bean) | 23 | <u>L10</u> |

| | | | |
|---------------------------------|------------------------------|------|-----------|
| <u>L9</u> | L7 and (federated near bean) | 1 | <u>L9</u> |
| <i>DB=USPT; PLUR=YES; OP=OR</i> | | | |
| <u>L8</u> | L7 and (federated near bean) | 1 | <u>L8</u> |
| <u>L7</u> | driver near software | 4661 | <u>L7</u> |
| <u>L6</u> | L5 and api | 1 | <u>L6</u> |
| <u>L5</u> | L4 and software | 3 | <u>L5</u> |
| <u>L4</u> | management near facade | 3 | <u>L4</u> |
| <u>L3</u> | L2 and table | 1 | <u>L3</u> |
| <u>L2</u> | (6014557).pn. | 1 | <u>L2</u> |
| <u>L1</u> | (6501950).pn. | 1 | <u>L1</u> |

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 9 of 9 returned.

☐ 1. Document ID: US 20030217195 A1

Using default format because multiple data bases are involved.

L12: Entry 1 of 9

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030217195

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030217195 A1

TITLE: Method and apparatus for managing host-based data services using CIM providers

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---------------------|-----------|-------|---------|---------|
| Mandal, Chhandomay | Nashua | NH | US | |
| DaCosta, Jillian I. | Nashua | NH | US | |
| Cao, Lanshan | Andover | MA | US | |
| Pokigo, Roberta A. | Billerica | MA | US | |

US-CL-CURRENT: 719/330; 709/223, 719/321

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | RMAC | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

☐ 2. Document ID: US 20030204557 A1

L12: Entry 2 of 9

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030204557

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030204557 A1

TITLE: Method and apparatus for managing remote data replication using CIM providers in a distributed computer system

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---------------------|--------|-------|---------|---------|
| Mandal, Chhandomay | Nashua | NH | US | |
| DaCosta, Jillian I. | Nashua | NH | US | |

| | | | |
|--------------------|-----------|----|----|
| Cao, Lanshan | Andover | MA | US |
| Pokigo, Roberta A. | Billerica | MA | US |

US-CL-CURRENT: 709/202; 707/204

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw D. |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|---------|

☐ 3. Document ID: US 20030172088 A1

L12: Entry 3 of 9

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030172088
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030172088 A1

TITLE: Method and apparatus for managing a data imaging system using CIM providers
in a distributed computer system

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---------------------|------------|-------|---------|---------|
| Mandal, Chhandomay | Nashua | NH | US | |
| DaCosta, Jillian I. | Nashua | NH | US | |
| Cao, Lanshan | Andover | MA | US | |
| France, Jonathan C. | Somerville | MA | US | |
| Du, Yuantai | Nashua | NH | US | |
| Pokigo, Roberta A. | Billerica | MA | US | |

US-CL-CURRENT: 707/200

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw D. |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|---------|

☐ 4. Document ID: US 20030088713 A1

L12: Entry 4 of 9

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030088713
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030088713 A1

TITLE: Method and apparatus for managing data caching in a distributed computer
system

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|--------------------|----------|-------|---------|---------|
| Mandal, Chhandomay | Nashua | NH | US | |
| Musante, Mark J. | Westford | MA | US | |

| | | | |
|---------------------|------------|----|----|
| Wagener, Peter J. | Somerville | MA | US |
| DaCosta, Jillian I. | Nashua | NH | US |
| Pokigo, Roberta A. | Billerica | MA | US |
| Goosey, Melora L. | Andover | MA | US |

US-CL-CURRENT: 719/328

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Ds |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 5. Document ID: US 20030084198 A1

L12: Entry 5 of 9

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084198
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030084198 A1

TITLE: Method and apparatus for managing data services in a distributed computer system

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|--------------------|------------|-------|---------|---------|
| Mandal, Chhandomay | Nashua | NH | US | |
| Musante, Mark J. | Westford | MA | US | |
| Wagener, Peter J. | Somerville | MA | US | |
| Pokigo, Roberta A. | Billerica | MA | US | |
| Goosey, Melora L. | Andover | MA | US | |

US-CL-CURRENT: 719/316

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Ds |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 6. Document ID: US 20030061399 A1

L12: Entry 6 of 9

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030061399
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030061399 A1

TITLE: Method and apparatus for managing data volumes in a distributed computer system

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-------------------|------------|-------|---------|---------|
| Wagener, Peter J. | Somerville | MA | US | |

| | | | |
|---------------------|------------|----|----|
| Musante, Mark J. | Westford | MA | US |
| Mandal, Chhandomay | Nashua | NH | US |
| Goosey, Melora L. | Andover | MA | US |
| Pokigo, Roberta A. | Billerica | MA | US |
| Quill, George J. | Clinton | MA | US |
| Gratzer, Peter L. | Broomfield | CO | US |
| DaCosta, Jillian I. | Nashua | NH | US |
| France, Jonathan C. | Somerville | MA | US |

US-CL-CURRENT: 719/321; 719/328

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|

☐ 7. Document ID: US 20030061366 A1

L12: Entry 7 of 9

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030061366
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030061366 A1

TITLE: Method and apparatus for managing data imaging in a distributed computer system

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|--------------------|------------|-------|---------|---------|
| Musante, Mark J. | Westford | MA | US | |
| Mandal, Chhandomay | Nashua | NH | US | |
| Wagener, Peter J. | Somerville | MA | US | |
| Zhang, Lanshan | Andover | MA | US | |
| Goosey, Melora L. | Andover | MA | US | |
| Pokigo, Roberta A. | Billerica | MA | US | |

US-CL-CURRENT: 709/230; 709/237

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|

☐ 8. Document ID: US 20030033327 A1

L12: Entry 8 of 9

File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030033327
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030033327 A1

TITLE: Method and apparatus for managing remote data replication in a distributed computer system

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---------------------|------------|-------|---------|---------|
| Mandal, Chhandomay | Nashua | NH | US | |
| Wagener, Peter J. | Somerville | MA | US | |
| Musante, Mark J. | Westford | MA | US | |
| DaCosta, Jillian I. | Nashua | NH | US | |
| Zhang, Lanshan | Andover | MA | US | |
| Pokigo, Roberta A. | Billerica | MA | US | |

US-CL-CURRENT: 707/204

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | FIGS | Draw. Des. |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|------------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|------------|

☐ 9. Document ID: US 6772178 B2

L12: Entry 9 of 9

File: USPT

Aug 3, 2004

US-PAT-NO: 6772178

DOCUMENT-IDENTIFIER: US 6772178 B2

TITLE: Method and apparatus for managing remote data replication in a distributed computer system

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|------------|-------|----------|---------|
| Mandal; Chhandomay | Nashua | NH | | |
| Wagener; Peter J. | Somerville | MA | | |
| Musante; Mark J. | Westford | MA | | |
| DaCosta; Jillian I. | Nashua | NH | | |
| Zhang; Lanshan | Andover | MA | | |
| Pokigo; Roberta A. | Billerica | MA | | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|------------------------|-------------|-------|----------|---------|-----------|
| Sun Microsystems, Inc. | Santa Clara | CA | | | 02 |

APPL-NO: 09/ 917145 [PALM]

DATE FILED: July 27, 2001

INT-CL: [07] G06 F 17/00

US-CL-ISSUED: 707/204; 707/10, 707/200, 709/217, 709/220, 709/223

US-CL-CURRENT: 707/204; 707/10, 707/200, 709/217, 709/220, 709/223

FIELD-OF-SEARCH: 707/10, 707/200, 707/204, 709/226, 709/201, 709/203, 709/217, 709/220, 709/223, 709/316, 711/162, 711/203, 714/5

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|---------------------|----------------|-----------------|---------|
| <u>6002085</u> | December 1999 | Utsumi et al. | 174/28 |
| <u>6058401</u> | May 2000 | Stamos et al. | 707/201 |
| <u>6453326</u> | September 2002 | Parham et al. | 707/204 |
| <u>6571232</u> | May 2003 | Goldberg et al. | 707/2 |
| <u>6625613</u> | September 2003 | Thompson | 707/102 |
| <u>2003/0014432</u> | January 2003 | Teloh et al. | 707/204 |
| <u>2003/0014433</u> | January 2003 | Teloh et al. | 707/204 |
| <u>2003/0014523</u> | January 2003 | Teloh et al. | 709/226 |
| <u>2003/0033327</u> | February 2003 | Mandal et al. | 707/204 |
| <u>2003/0061399</u> | March 2003 | Wagener et al. | 709/321 |
| <u>2003/0074446</u> | April 2003 | Musante et al. | 709/224 |
| <u>2003/0084116</u> | May 2003 | Musante et al. | 709/217 |
| <u>2003/0084198</u> | May 2003 | Mandal et al. | 709/316 |
| <u>2003/0088713</u> | May 2003 | Mandal et al. | 709/328 |
| <u>2003/0105840</u> | June 2003 | Mandal et al. | 709/220 |

OTHER PUBLICATIONS

Kyeongho et al., "Scheduling of storage and cache servers for replicated multimedia data", IEEE, pp. 484-487, 1997.*

Bhide et al., "Implicit replication in a network file server", IEEE, pp. 85-90.*

Cai et al., "A new medium access control for multi-channel Ad Hoc networks", IEEE, pp. 966-971.*

Makpangou et al., "Replicated directory service for weakly consistent distributed caches", ACN, pp1-9.*

Vason P. Srinin, "An architecture for extended abstract data flow", IEEE, pp. 303-325, 1981.

Madan et al., "A distributed real time database for heterogeneous computer control systems", IEEE, pp. 435-440, 1995.

Pu et al., "Replica control in distributed systems", ACM, pp. 377-386, 1991.

ART-UNIT: 2171

PRIMARY-EXAMINER: Corrielus; Jean M.

ATTY-AGENT-FIRM: Kudirka & Jobse, LLP

ABSTRACT:

A three-tiered data replication management system is used on a distributed computer system connected by a network. The lowest tier comprises management facade software running on each machine that converts a platform-dependent interface written in low-level kernel routines that actually perform the data replication to platform-independent method calls. The middle tier is a set of federated Java beans, which communicate with each other, with the management facades, and with the upper tier of the system. The upper tier of the inventive system comprises presentation programs that can be directly manipulated by management personnel to view and control the system. The federated Java beans can run on any machine in the system.

and communicate via the network. A data replication bean runs on each host and at least one such bean communicates directly with a management interface that is controlled by a user.

22 Claims, 18 Drawing figures

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|---------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMC | Draw D. |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|---------|

| | | | | | |
|-------|---------------------|-------|----------|-----------|---------------|
| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |
|-------|---------------------|-------|----------|-----------|---------------|

| Term | Documents |
|---|-----------|
| API | 87306 |
| APIS | 9617 |
| (11 AND API).PGPB,USPT,USOC,EPAB,JPAB,DWPI. | 9 |
| (L11 AND API).PGPB,USPT,USOC,EPAB,JPAB,DWPI. | 9 |

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